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210 7550 08/19/2009 MERCK AND CO., INC P O BOX 2000			EXAMINER	
			KAROL, JODY LYNN	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/539 872 HATHAWAY ET AL. Office Action Summary Examiner Art Unit Jody L. Karol 1617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 June 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.7-15.20 and 21 is/are pending in the application. 4a) Of the above claim(s) 9 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1, 7-8, 10-15, and 20-21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 6/12/2009.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/12/2009 has been entered.

Receipt is acknowledged of applicant's Amendment/Remarks filed 6/12/2009.

Claims 1, 7-8, and 10-15 have been amended. Claims 2-6 and 16-19 have been cancelled. Claim 9 remains withdrawn as pertaining to the non-elected invention. Thus, claims 1, 7-15, and 20-21 are pending and claims 1, 7-8, 10-15, and 20-21 are currently under consideration.

Information Disclosure Statement

 The information disclosure statement (IDS) filed on 6/12/2009 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered.

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WITHDRAWN REJECTIONS

Applicant's cancellation of claim 18 renders the rejection of claim 18 under 35
 U.S.C. 103(a) as being unpatentable over Block et al. (WO 00/27382) moot. Thus, said rejection is herein withdrawn.

- Applicant's cancellation of claims 2 and 16-17 renders the rejection of claims 2 and 16-17 under 35 U.S.C. 103(a) as being unpatentable over Block et al. (WO 00/27382) in view of Shapiro (US 5,668,117) moot. Thus, said rejection is herein withdrawn
- 4. Upon further consideration, the rejection of claims 1, 7-8, 10-15, and 20-21 under 35 U.S.C. 103(a) as being unpatentable over Block et al. (WO 00/27382) in view of Shapiro (US 5,668,117) are withdrawn in favor of the new ground(s) of rejection presented below.

Response to Arguments

 Applicant's arguments filed 6/12/2009 have been fully considered but are moot in view of the new ground(s) of rejection presented below. However, Applicant's arguments have been addressed in so much as they apply to the new ground(s) of rejection.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that

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any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

The motivation for the combination of cited references is based on the individual teachings by the prior art references citing agents useful in the treatment of Parkinson's disease. It is obvious to combine individual compositions taught to have the same utility to form a new composition for the very same purpose *In re Kerkhoven*, 626 F.2d 846, 205, U.S.P.Q. 1069 (C.C.P.A. 1980). Thus, the combination of the agents taught by the prior art to be useful in the treatment of Parkinson's disease for the same purpose of treating Parkinson's disease is reasonably expected to be effective.

REJECTIONS

The following rejections and/or objections are either reiterated or newly applied.
 They constitute the complete set of rejections and/or objections presently being applied in the instant application.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 1, 7-8, 10-15 and 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephenson et al. (US 2004/0034083 A1) in view Fahn et al. ("Unified Parkinson's Disease Rating Scale" – cited on IDS).

The instant claims are directed to methods of treating Parkinson's disease, methods for treating Hoehn & Yahr Stage I-III Parkinson's disease, relieving the

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symptoms of Parkinson's disease, and/or ameliorating/slowing the progress of Parkinson's disease comprising administration of a therapeutically effective amount of pergolide, the COX-2 inhibitor rofecoxib, and in claims 10 and 21, additionally administrating the secondary antiparkinson agent selegiline.

Stephenson et al. teach a method of treating or inhibiting Parkinson's disease in a subject in need thereof with one or more cyclooxygenase-2 selective (COX-2) inhibitors in combination with on or more second drugs in effective amounts to treat Parkinson's disease (see abstract; title; page 3, section [0024]). Stephenson et al. further teach COX-2 inhibitors include rofecoxib (see page 5, Table 1A, B-21; page 60, Table 2, B-21) and second drugs include the dopamine agonist pergolide and/or the enzyme inhibitor selegiline (see pages 31-32, section [0028]; page 66, section [0437]). Stephenson et al. teach the combination of rofecoxib with one or more second drugs, such as pergolide or selegiline for the treatment of Parkinson's disease (see pages 32-34, section [0029], B-21; page 61, section [0209]). Stephenson et al. further teach the subject in need thereof is typically a human subject (see page 68, section [0432]).

Stephenson et al. do not teach an exemplification of a method treating

Parkinson's disease with a combination of rofecoxib and pergolide, or a combination of rofecoxib, pergolide, and selegiline as claimed in the instant claims 10 and 21.

Stephenson et al. also do not teach Hoehn & Yahr stage I-III Parkinson's disease is treated, as claimed in the instant claim 11.

Fahn et al. teach different rating scales for Parkinson's disease have been used in clinical studies including Hoehn and Yahr staging and UPDRS (see pages 153156).

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Fahn et al. teach that the Hoehn and Yahr staging ranges from I to V, wherein a stage of I is assigned to unilateral parkinsonism, stage II is to bilateral or midline Parkinson's without postural reflex involvement, stage V is the most severe stage, and wherein the first sign of impaired postural stability is indicative of stage III (see page 154).

It would have been obvious to one of ordinary skill in the art to administer rofecoxib and pergolide in the treatment of Parkinson's disease because rofecoxib in combination with dopamine agonists such as pergolide is effective for the treatment or inhibition of Parkinson's disease as taught by Stephenson et al. One of ordinary skill in the art would have been motivated to administer rofecoxib and pergolide in patients with Parkinson's disease in order to treat or inhibit Parkinson's disease in a patient. One of ordinary skill in the art would have had a reasonable expectation of success in administering rofecoxib and pergolide to treat Parkinson's disease because Stephenson et al. teach rofecoxib and a second drug such as pergolide are effective in the treatment of Parkinson's disease.

Further, it would have to been obvious to one of ordinary skill in the art at the time of the invention to employ the second drug selegiline in addition to rofecoxib and pergolide in the treatment of Parkinson's disease because selegiline is also effective in the treatment of Parkinson's disease. One of ordinary skill in the art would have been motivated to administer selegiline in addition to rofecoxib and pergolide to treat Parkinson's disease because selegiline is also taught to treat Parkinson's disease, and thus up to an additive effect is expected. One of ordinary skill in the art would have had a reasonable expectation of success in employing selegiline in addition to rofecoxib and

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pergolide to treat Parkinson's disease because Stephenson et al. teach that rofecoxib can be combined with one or more drugs to treat Parkinson's disease, wherein said drugs include pergolide and selegiline.

In regards to claim 11, the treatment of Parkinson's disease wherein the Parkinson's disease is Hoehn & Yahr Stage I-III Parkinson's disease is obvious because, as taught by Fahn, the current evaluation of determining the stages of Parkinson's disease is well known. One of ordinary skill in the art would readily be able to evaluate patients in the early to moderate stages of Parkinson's disease and promptly start treatment in order to avoid progression to later stages of the disease.

Thus, the invention as whole would have been *prima facie* obvious to one of ordinary skill in the art at the time it was made.

9. Claims 1, 7-8, 12-15 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teismann et al. ("Pharmacological Inhibition of COX-2 Provides Neuroprotection in the MPTP-Mouse Model of Parkinson's Disease" – cited on IDS) in view of Factor et al. ("Parkinson's disease: an open label trial of pergolide in patients failing bromocriptine therapy," *J. of Neurol. Neurosurg. Psychiatry*, 1988; 51: pgs 529-533).

Teismann et al. teach that neuroinflammation is believed to play a deleterious role in Parkinson's disease and in its experimental model produced by MPTP (see abstract). Teismann further teach inhibition of COX-2 by rofecoxib provides significant

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neuroprotection in MPTP-treated mice, and thus may be a valuable strategy for neuroprotective therapies in Parkinson's disease (see abstract).

Teismann et al. do not teach treatment of Parkinson's disease by administering pergolide with the rofecoxib. Teismann et al. do not teach treating Parkinson's disease in a human.

Factor et al. teach treating Parkinson's disease in patients failing bromocriptine therapy by administering pergolide (see abstract). Factor et al. further teach that the efficacy of pergolide mesylate in Parkinson's disease has been well established (see page 529).

It would have been obvious to one of ordinary skill in the art at the time of the invention to treat Parkinson's disease in a human by administering pergolide as taught by Factor et al. and rofecoxib as taught by Teismann et al. One of ordinary skill in the art would have been motivated to administer the combination of pergolide and rofecoxib to treat Parkinson's disease because both pergolide and rofecoxib are taught individually in the art to be useful for treating Parkinson's disease. It is obvious to combine individual compositions taught to have the same utility to form a new composition for the very same purpose *In re Kerkhoven*, 626 F.2d 846, 205, U.S.P.Q. 1069 (C.C.P.A. 1980). Thus, the concomitant employment of two agents known to treat Parkinson's disease for the same purpose of treating Parkinson's treatment is reasonably expected to be effective.

While Teismann et al. does not explicitly teach administering rofecoxib to a human to treat Parkinson's disease, Teismann et al. teach an experimental model of

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Parkinson's disease using MPTP wherein rofecoxib is demonstrated to be effective.

The next logical step would be to administer rofecoxib to humans with Parkinson's disease in order to treat said disease.

Thus, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time it was made.

10. Claims 10 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teismann et al. ("Pharmacological Inhibition of COX-2 Provides Neuroprotection in the MPTP-Mouse Model of Parkinson's Disease" – cited on IDS) in view of Factor et al. ("Parkinson's disease: an open label trial of pergolide in patients failing bromocriptine therapy," *J. of Neurol. Neurosurg. Psychiatry*, 1988; 51: pgs 529-533) as applied to claims 1, 7-8, 12-15 and 20 above and in further view of Heinonen et al. ("Safety of Selegiline (Deprenyl) in the Treatment of Parkinson's Disease," *Drug Safety*, 1998 Jul; 19 (1): pgs 11-22).

Teismann et al. in view of Factor et al. is described *supra* as applied to claims 1, 7-8, 12-15 and 20.

Teismann et al. in and Factor et al. do not teach administering selegiline in addition to pergolide and rofecoxib to treat Parkinson's disease.

Heinonen et al. teach selegiline is widely used in the treatment of Parkinson's disease and that selegiline is generally widely tolerated in combination with other drugs (see abstract).

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It would have been obvious to one of ordinary skill in the art at the time of the invention to treat Parkinson's disease by administering selegiline as taught by Heinonen et al. in combination with the administration of rofecoxib and pergolide as obvious over Teismann et al. in view of Factor et al. One of ordinary skill in the art would have been motivated to treat Parkinson's disease by administrating a combination of selegiline, pergolide, and rofecoxib because selegiline, pergolide, and rofecoxib are taught individually in the art to be useful for treating Parkinson's disease. It is obvious to combine individual compositions taught to have the same utility to form a new composition for the very same purpose *In re Kerkhoven*, 626 F.2d 846, 205, U.S.P.Q. 1069 (C.C.P.A. 1980). Thus, the concomitant employment of selegiline, pergolide, and rofecoxib which are individually known to treat Parkinson's disease for the same purpose of treating Parkinson's treatment is reasonably expected to be effective.

Thus, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time it was made.

11. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Teismann et al. ("Pharmacological Inhibition of COX-2 Provides Neuroprotection in the MPTP-Mouse Model of Parkinson's Disease" – cited on IDS) in view of Factor et al. ("Parkinson's disease: an open label trial of pergolide in patients failing bromocriptine therapy," *J. of Neurol. Neurosurg. Psychiatry*, 1988; 51: pgs 529-533) as applied to claims 1, 7-8, 12-15 and 20 above and in further view of Fahn et al. ("Unified Parkinson's Disease Rating Scale" – cited on IDS).

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Teismann et al. in view of Factor et al. is described *supra* as applied to claims 1, 7-8, 12-15 and 20.

Teismann et al. in and Factor et al. do not teach Hoehn & Yahr stage I-III

Parkinson's disease is treated, as claimed in the instant claim 11.

Fahn et al. teach different rating scales for Parkinson's disease have been used in clinical studies including Hoehn and Yahr staging and UPDRS (see pages 153156). Fahn et al. teach that the Hoehn and Yahr staging ranges from I to V, wherein a stage of I is assigned to unilateral parkinsonism, stage II is to bilateral or midline Parkinson's without postural reflex involvement, stage V is the most severe stage, and wherein the first sign of impaired postural stability is indicative of stage III (see page 154).

It would have been obvious to one ordinary skill in the art at the time of the invention to treat Parkinson's disease wherein the Parkinson's disease is Hoehn & Yahr Stage I-III Parkinson's disease as taught by Fahn, by administering rofecoxib and pergolide as obvious over Teismann et al. and Factor et al. One of ordinary skill in the art would have been motivated to treat Hoehn & Yahr Stage I-III Parkinson's disease in order to avoid or delay progression to later stages of the disease. One of ordinary skill in the art would have been readily able to evaluate the patients to determine the stage of Parkinson's disease because the current evaluation of determining the stages of Parkinson's disease is well known.

Thus, the invention as whole would have been *prima facie* obvious to one of ordinary skill in the art at the time it was made.

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Conclusion

No claims are allowed.

Correspondence

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jody L. Karol whose telephone number is (571)270-3283. The examiner can normally be reached on 8:30 am - 5:00 pm Mon-Fri EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Jody L. Karol/

Examiner, Art Unit 1617

/JENNIFER M KIM/ Primary Examiner, Art Unit 1617